

Fig. 1

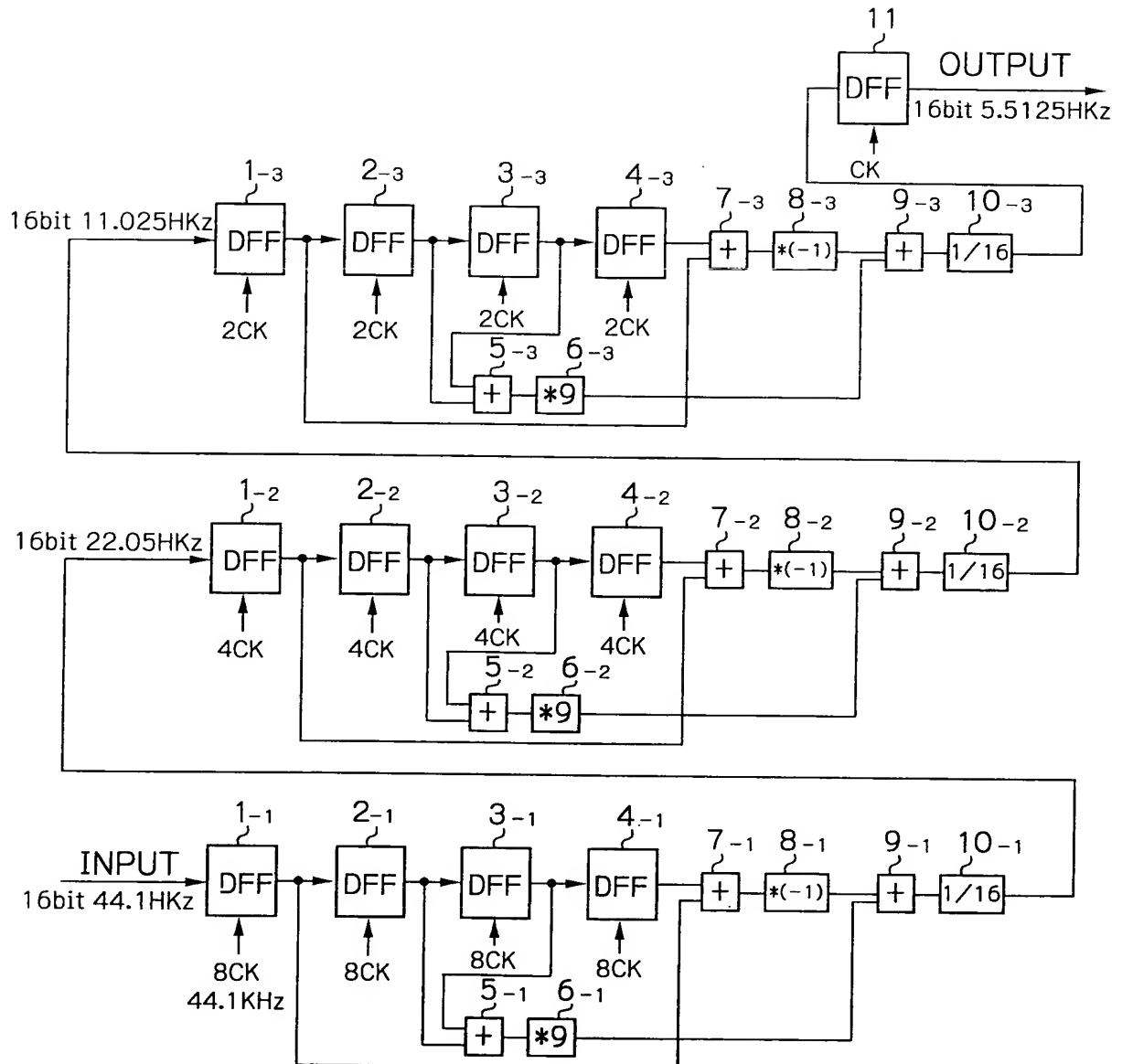


Fig. 2

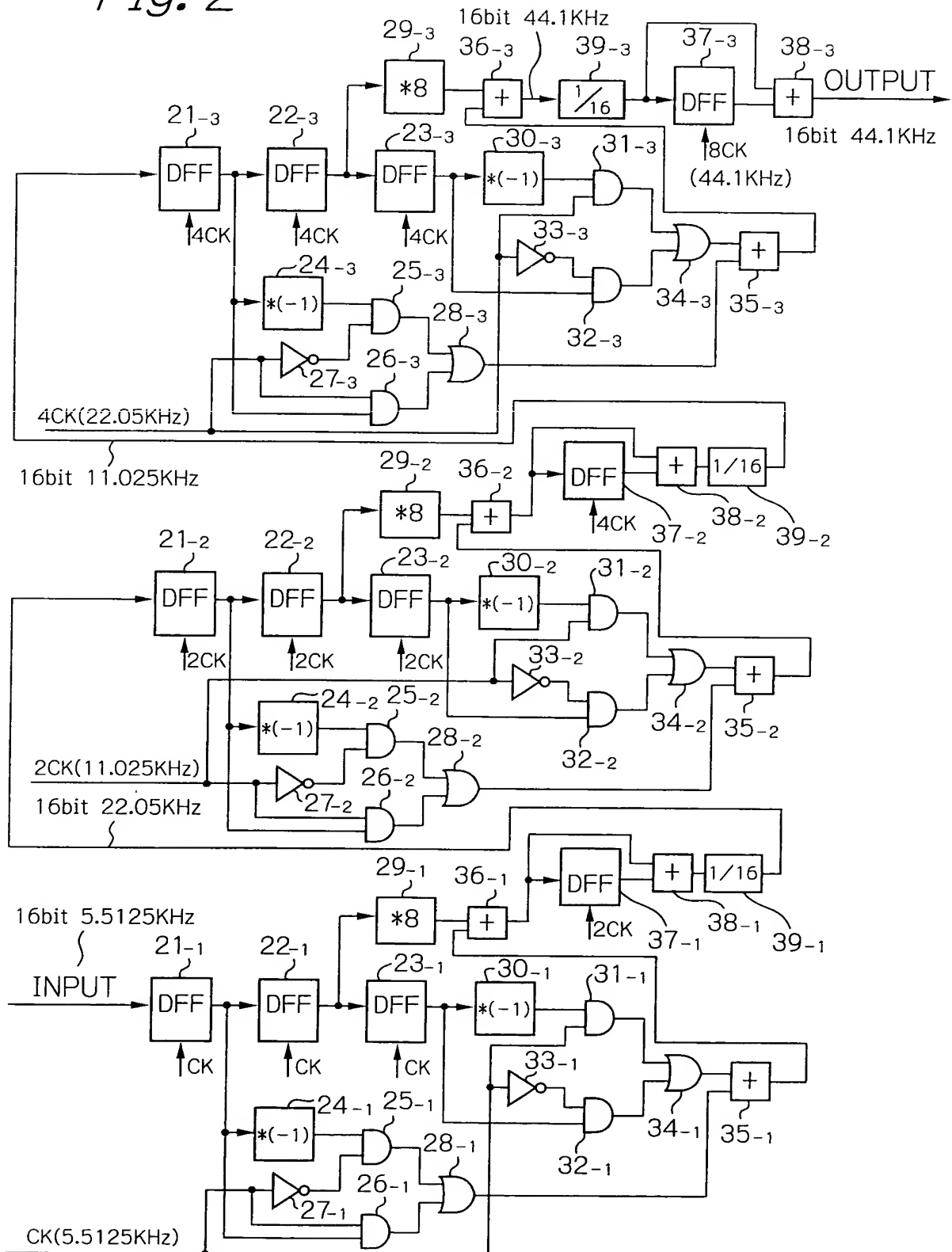


Fig. 3A

THINNING PRINCIPLE OF EMBODIMENT 1

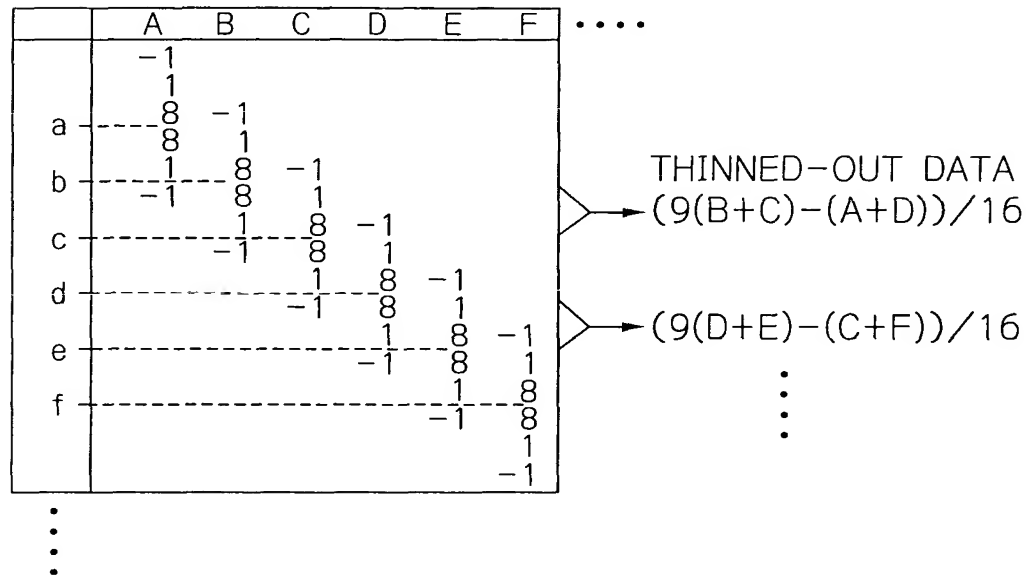
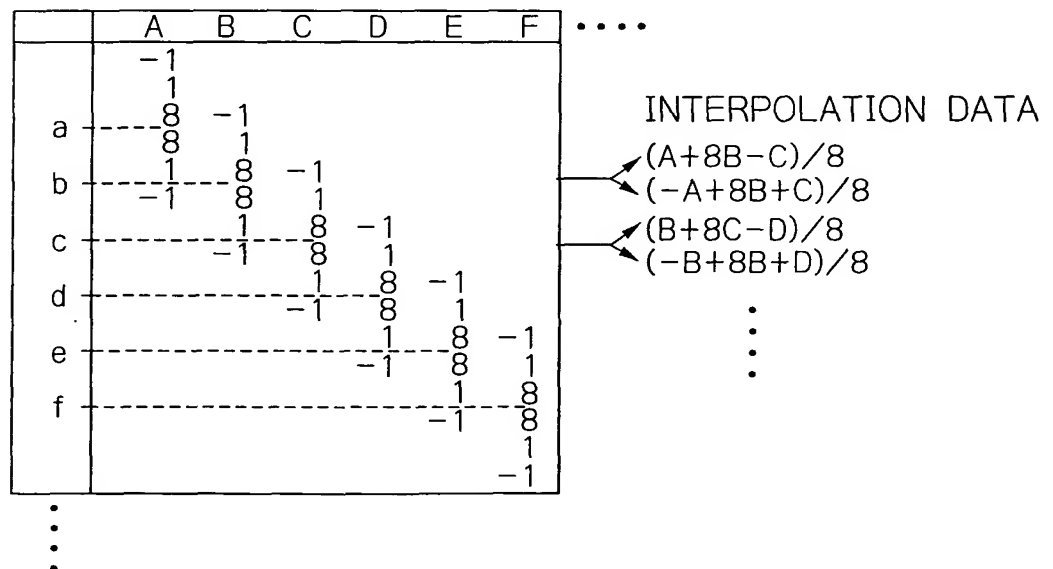


Fig. 3B

INTERPOLATING PRINCIPLE OF EMBODIMENT 1



$\frac{4}{21}$

Fig. 4

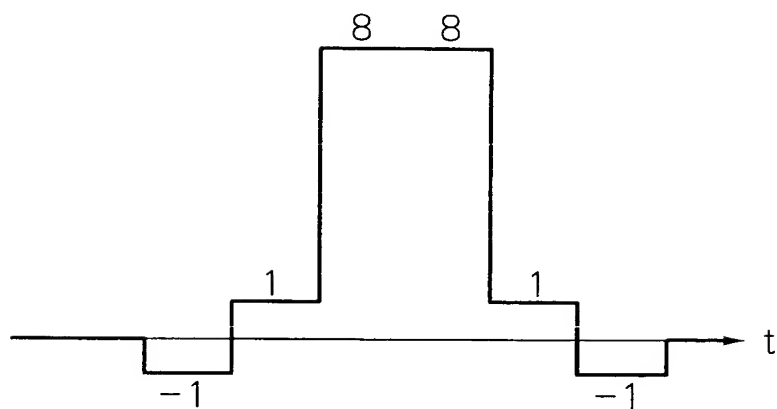
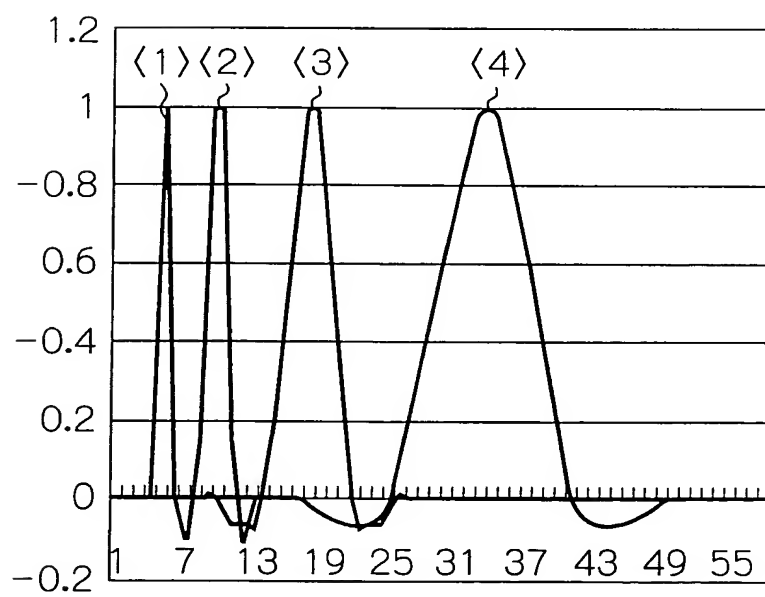


Fig. 5



$\frac{5}{21}$

Fig. 6

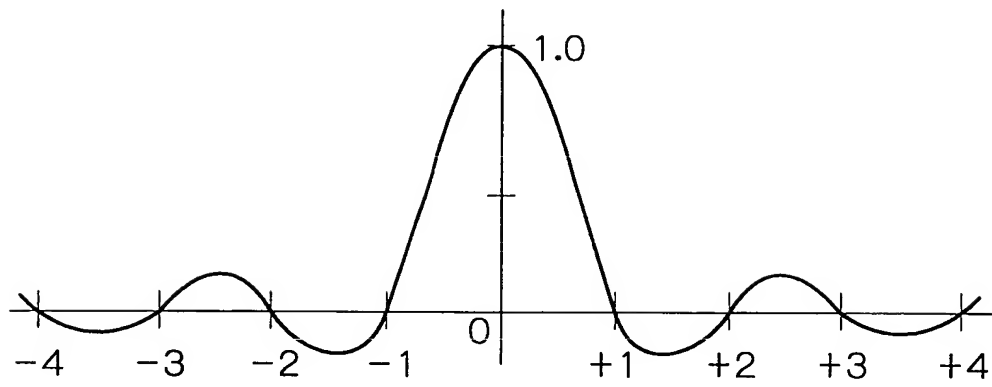


Fig. 7

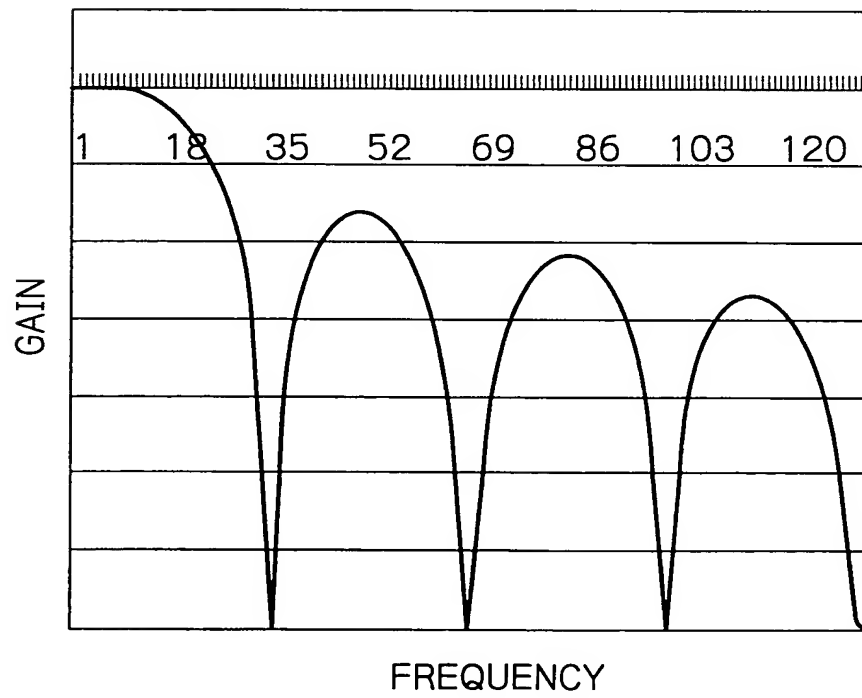


Fig. 8

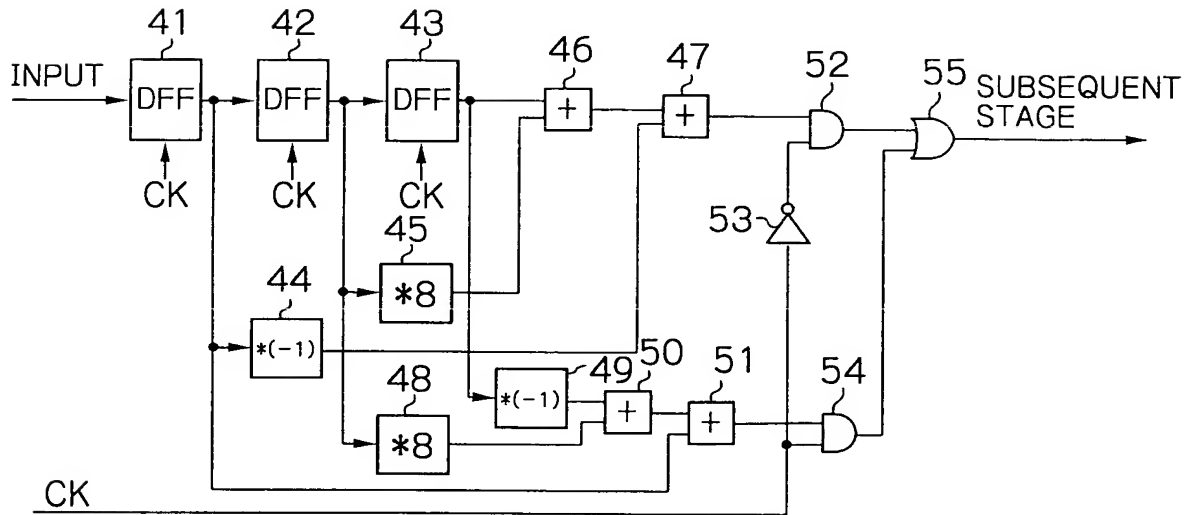


Fig. 9

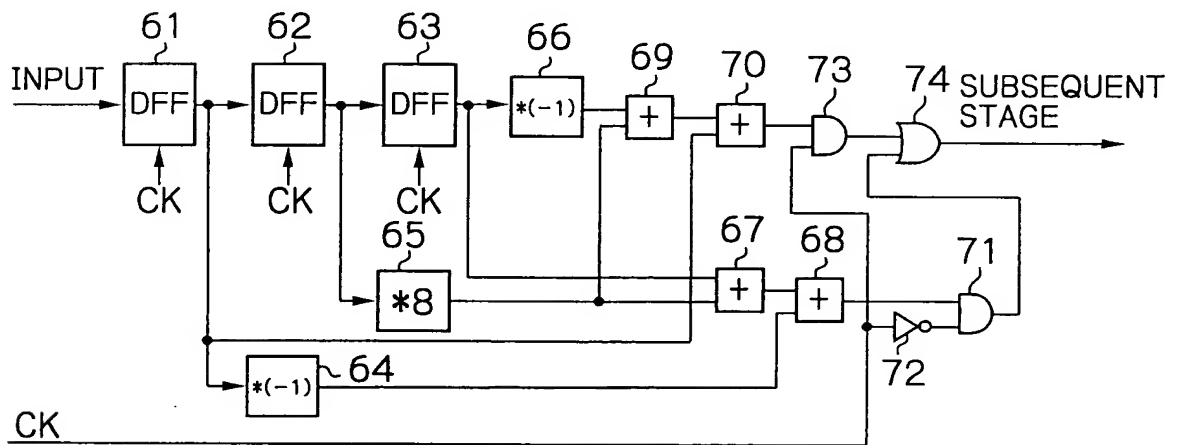


Fig. 10

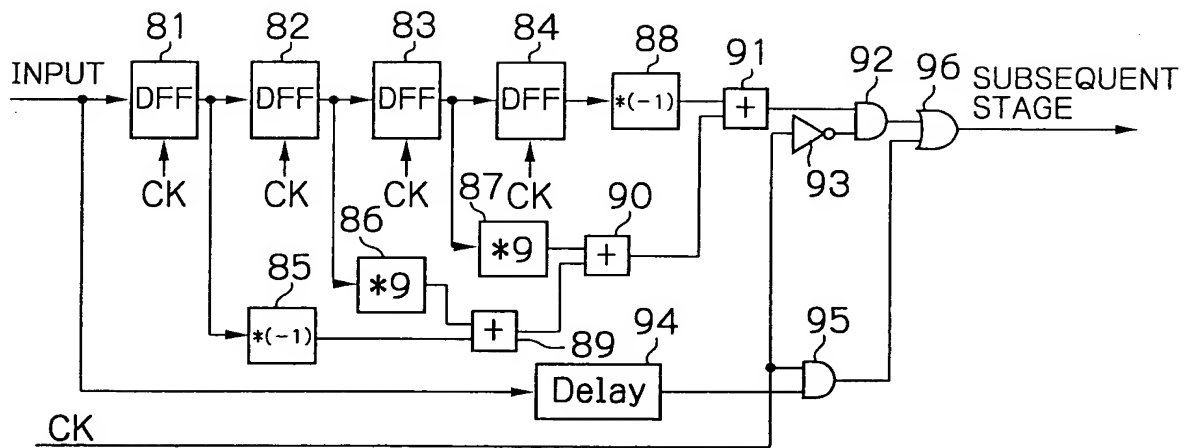


Fig. 11A

INTERPOLATING PRINCIPLE OF EMBODIMENT 2

| | A | B | C | D | E | F | G | H | I | |
|---|--------|-----|-----|-----|-----|-----|-----|-----|----|------|
| | -1 | | | | | | | | | |
| | 0 | -1 | | | | | | | | |
| | 9 | 0 | -1 | | | | | | | |
| a | --16-- | 9 | 0 | -1 | | | | | | |
| b | --9 | 16 | 9 | 0 | -1 | | | | | |
| c | --0-- | 9-- | 16 | 9 | 0 | -1 | | | | |
| d | --1-- | 0-- | 9-- | 16 | 9 | 0 | -1 | | | |
| e | ----- | 1-- | 0-- | 9-- | 16 | 9 | 0 | -1 | | |
| f | ----- | | 1-- | 0-- | 9-- | 16 | 9 | 0 | -1 | |
| g | ----- | | | 1-- | 0-- | 9-- | 16 | 9 | 0 | |
| h | ----- | | | | 1-- | 0-- | 9-- | 16 | 9 | |
| i | ----- | | | | | 1-- | 0-- | 9-- | 16 | |
| | | | | | | | -1 | 0 | 9 | |
| | | | | | | | | -1 | 0 | |
| | | | | | | | | | -1 | |

THINNED-OUT DATA

→ $(16D+9(C+E)-(A+G))/32$

→ $(16F+9(E+G)-(C+I))/32$

⋮

Fig. 11B

INTERPOLATING PRINCIPLE OF EMBODIMENT 2

| | A | B | C | D | E | F | |
|---|-------|-----|-----|-----|-----|----|------|
| | 9 | -1 | | | | | |
| a | --16 | 0 | | | | | |
| | 9 | 9 | -1 | | | | |
| b | --0-- | 16 | 0 | | | | |
| | -1 | 9 | 9 | -1 | | | |
| c | ----- | 0-- | 16 | 0 | | | |
| | | -1 | 9 | 9 | -1 | | |
| d | ----- | | 0-- | 16 | 0 | | |
| | | | -1 | 9 | 9 | -1 | |
| e | ----- | | | 0-- | 16 | 0 | |
| | | | | -1 | 9 | 9 | |
| f | ----- | | | | 0-- | 16 | |
| | | | | | -1 | 9 | |
| | | | | | | 0 | |
| | | | | | | -1 | |

INTERPOLATION DATA

↖ $(-A+9B+25C-D)/32$

↖ $(-B+25C+9D-E)/32$

↖ $(-B+9C+25D-E)/32$

↖ $(-C+25D+9E-F)/32$

⋮

Fig. 12

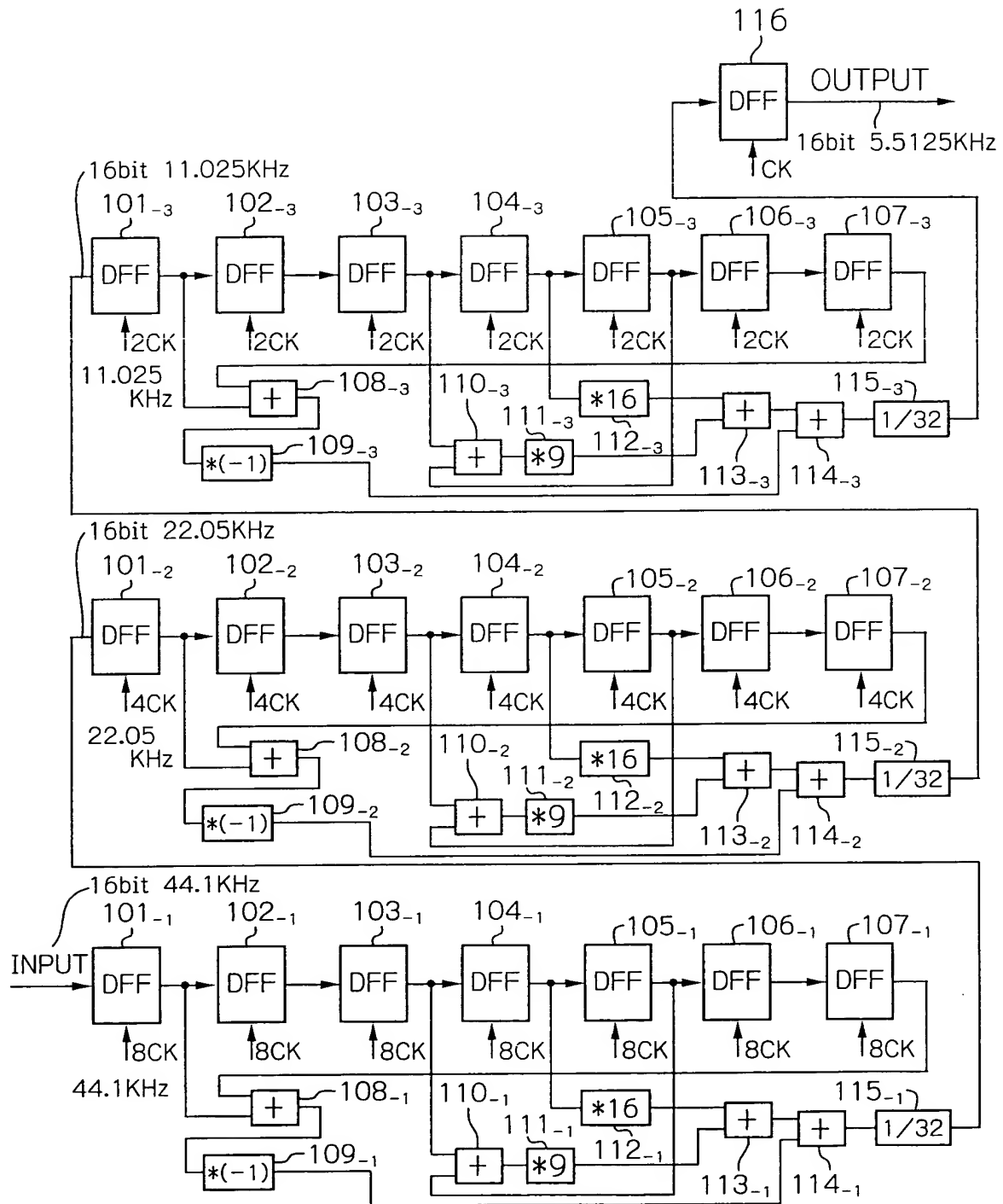


Fig. 13

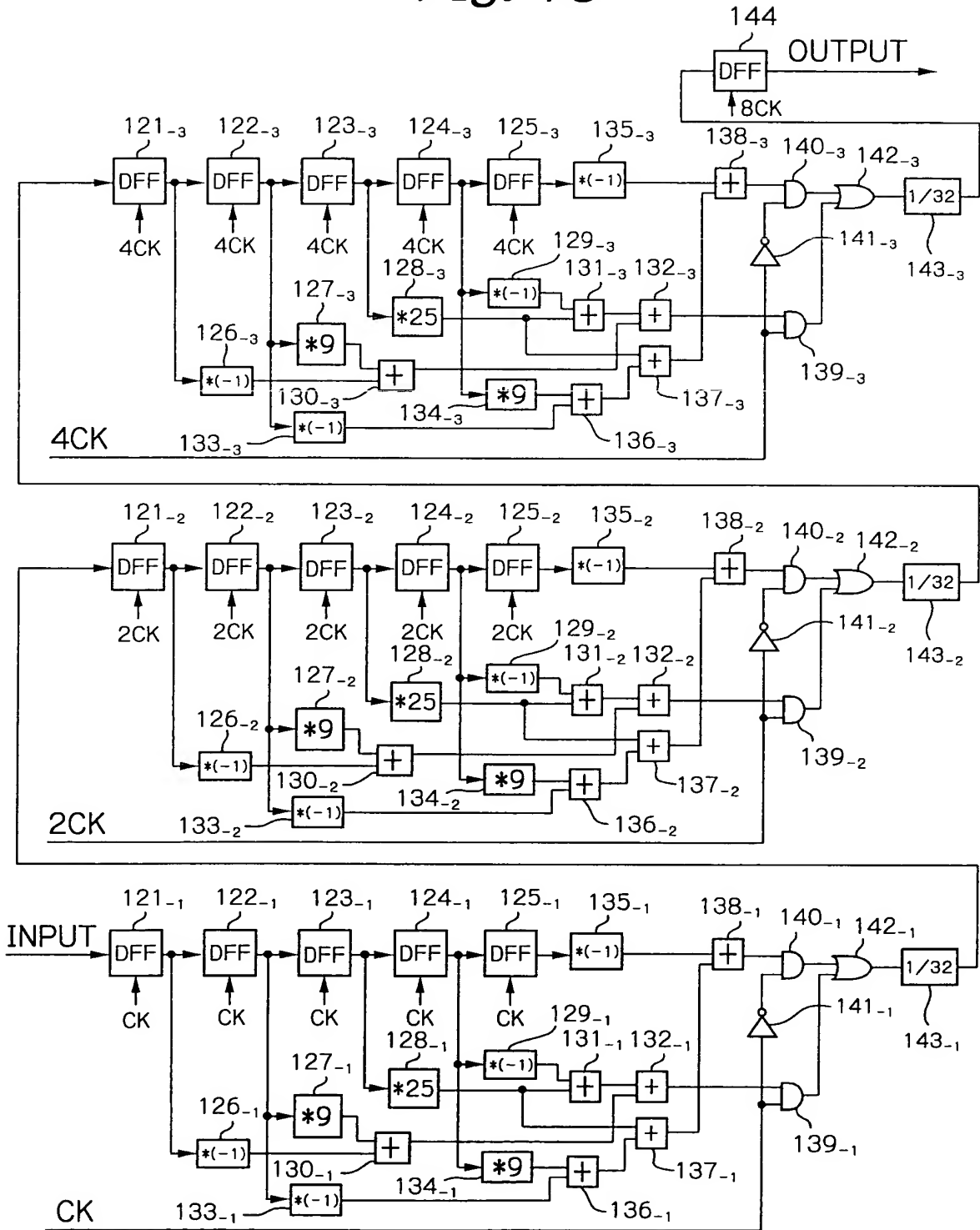


Fig. 14

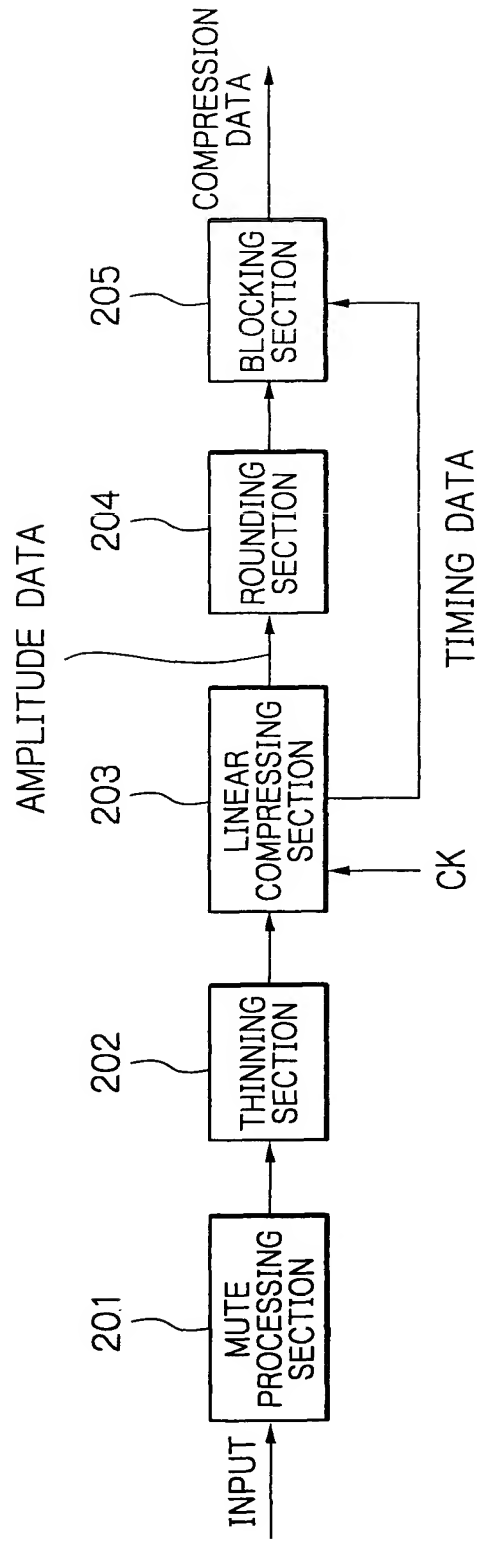


Fig. 15A

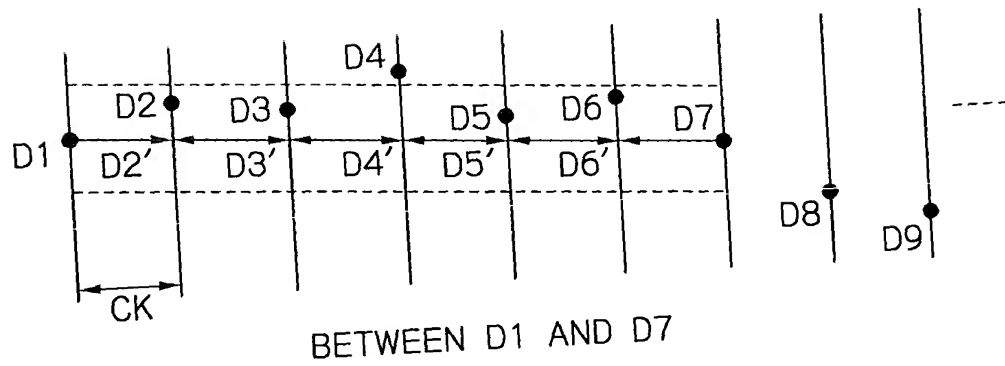
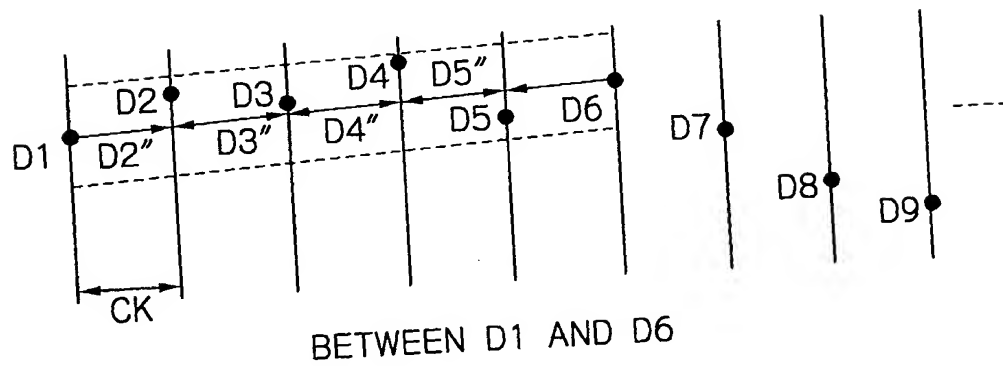


Fig. 15B



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Fig. 16A

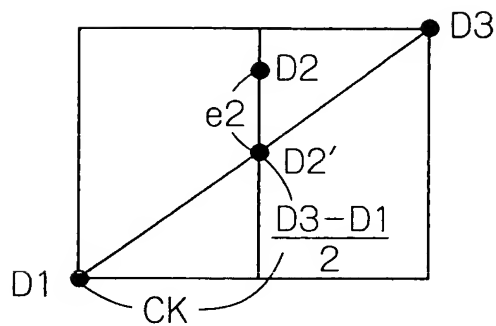


Fig. 16B

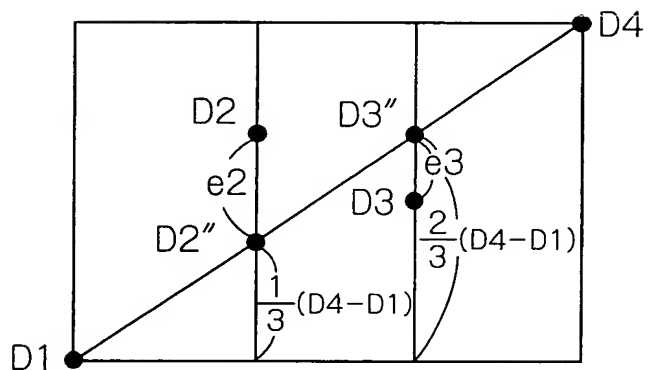
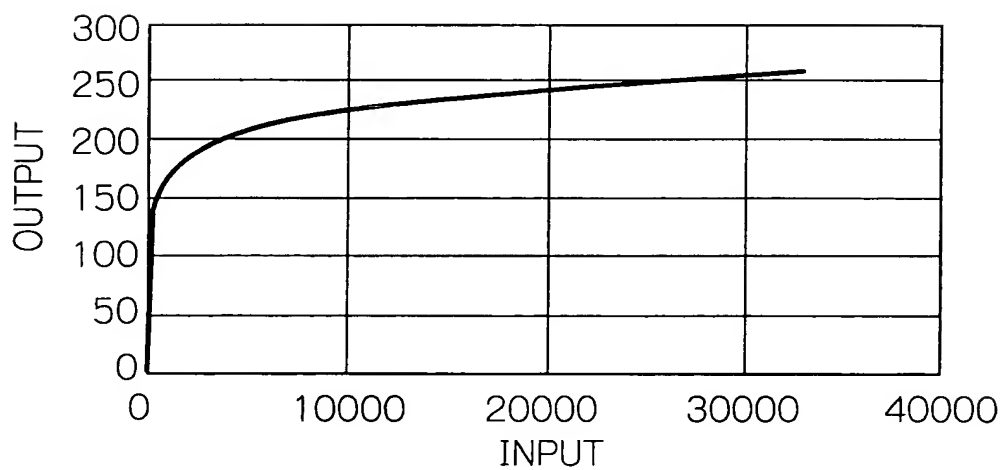


Fig. 17



$\frac{14}{21}$

Fig. 18

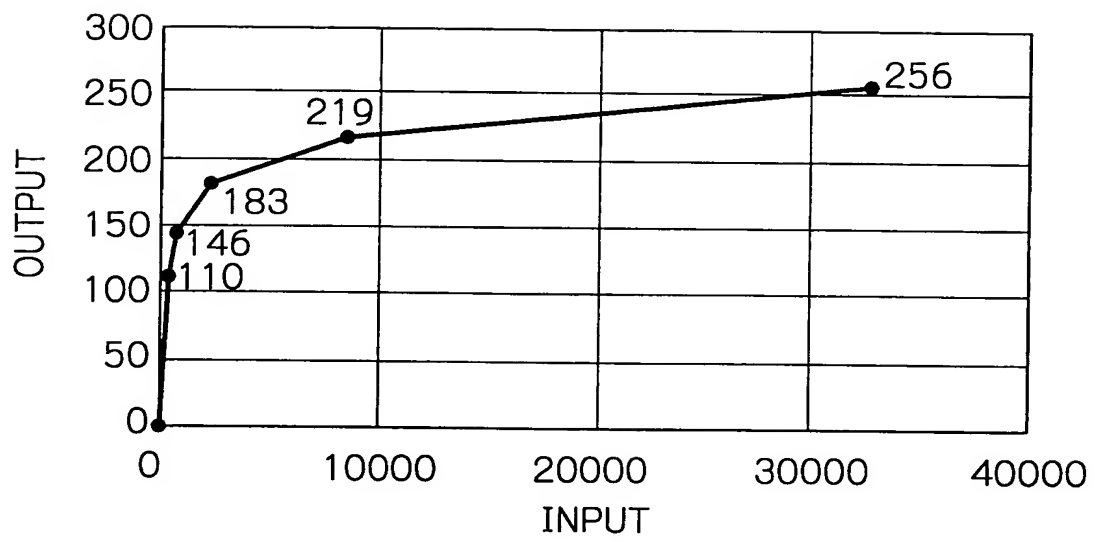
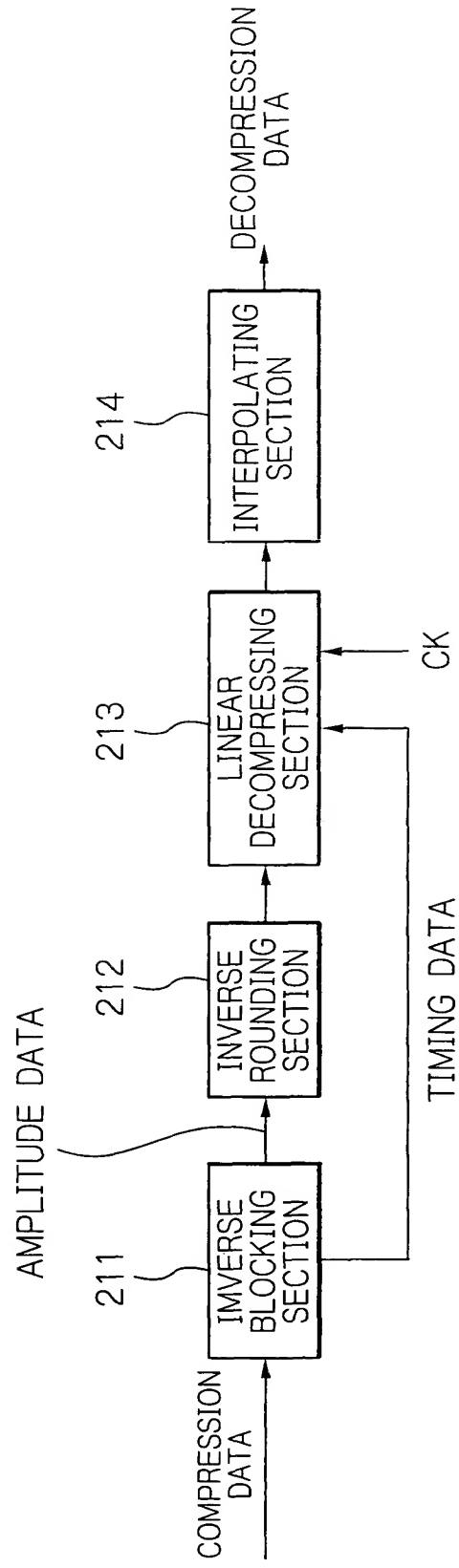


Fig. 19



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Fig. 20

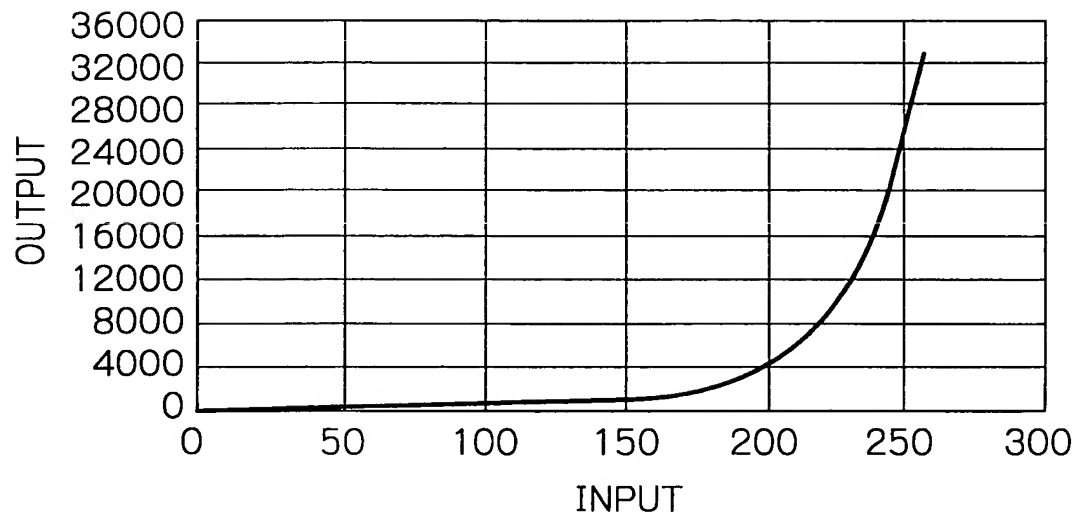
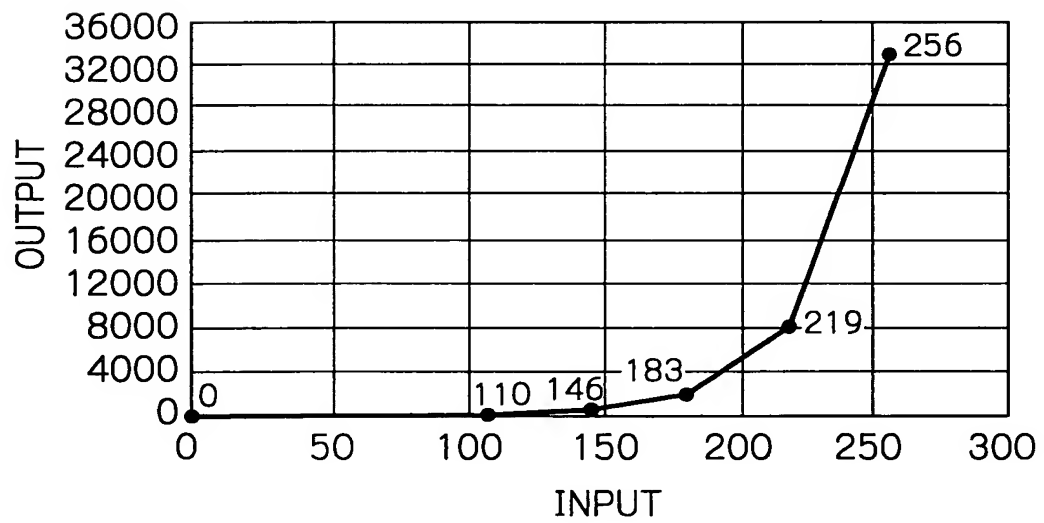


Fig. 21



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Fig. 22

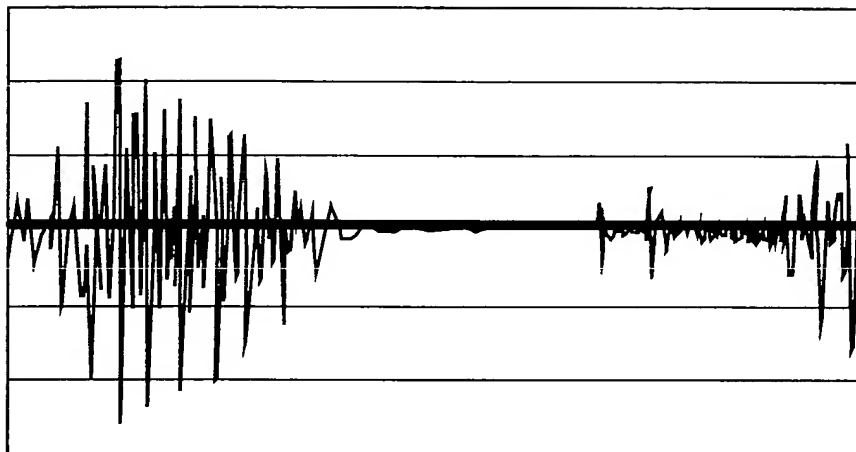


Fig. 23

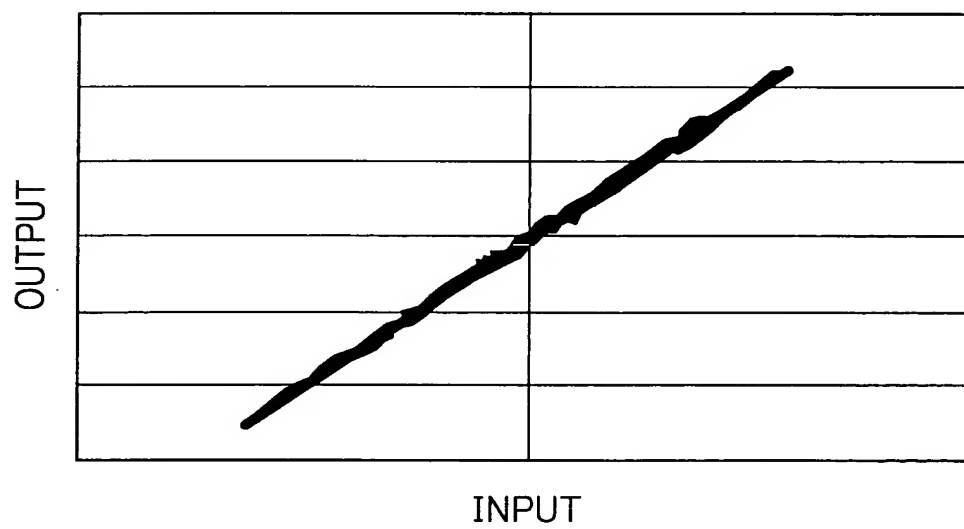


Fig. 24

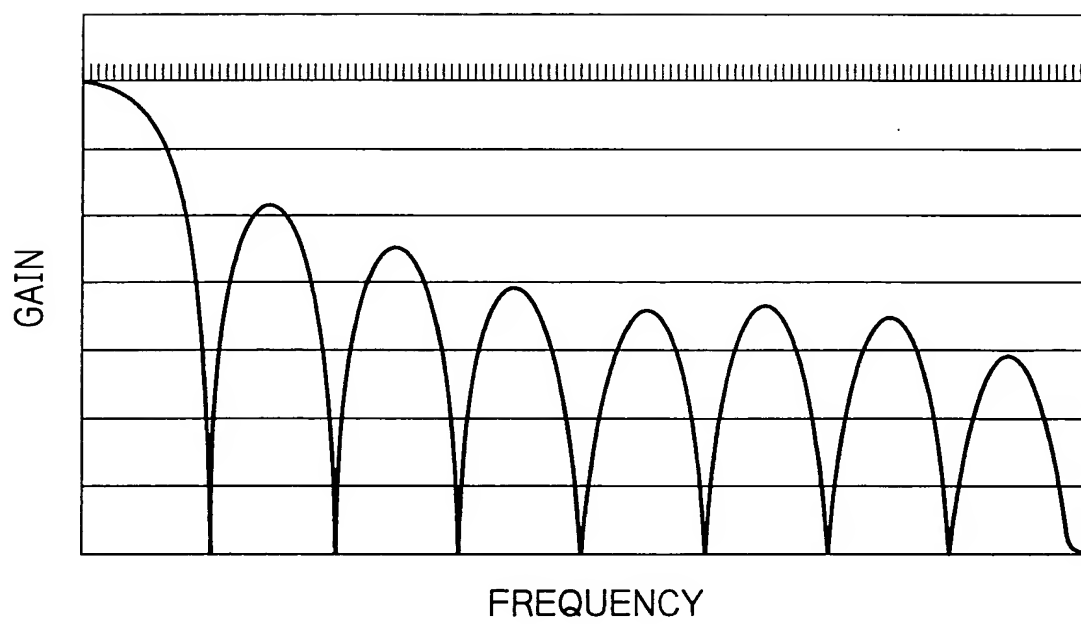


Fig. 25

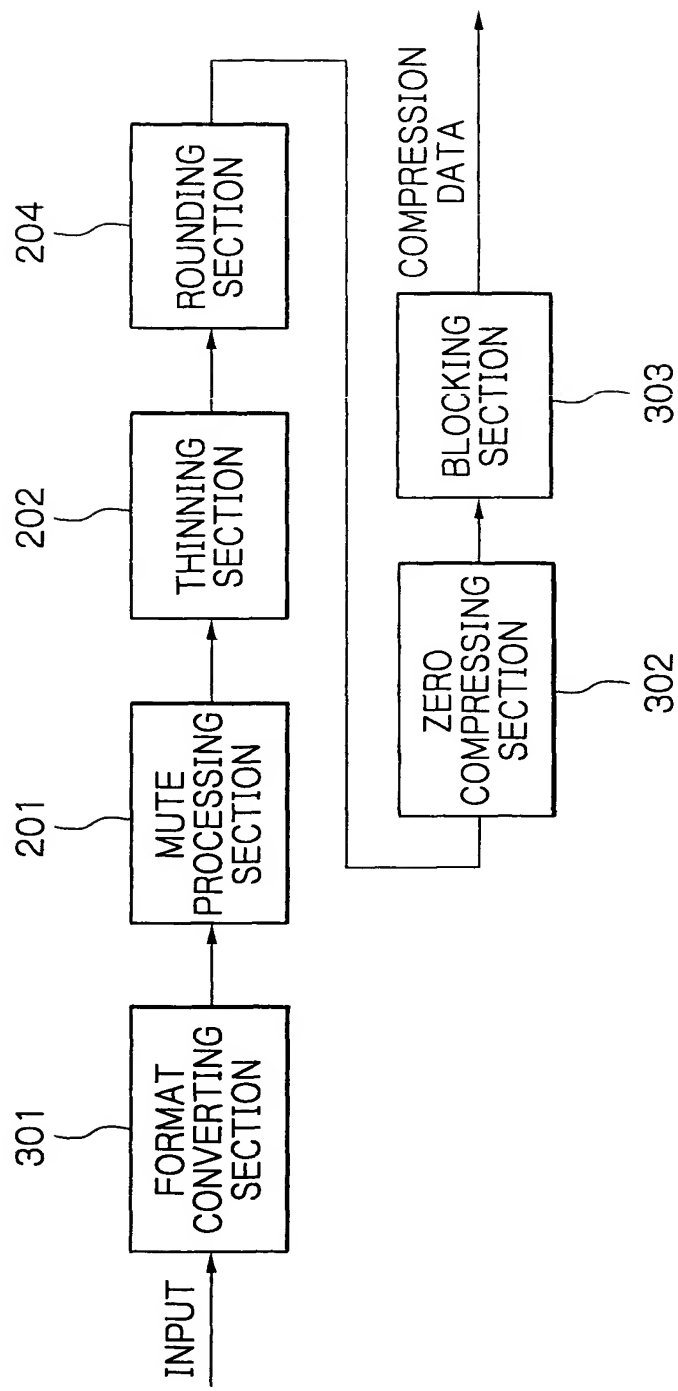


Fig. 26A

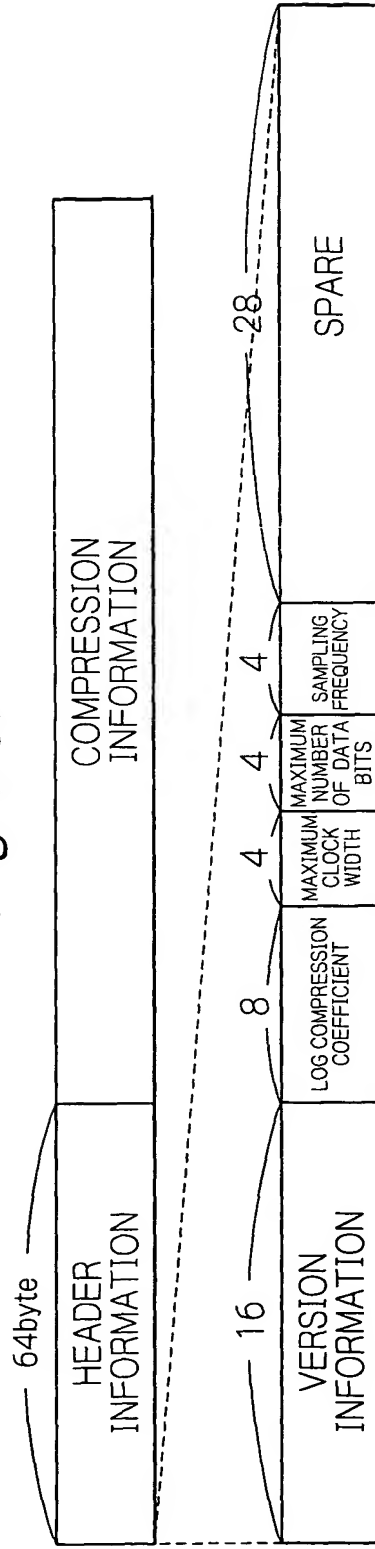


Fig. 26B

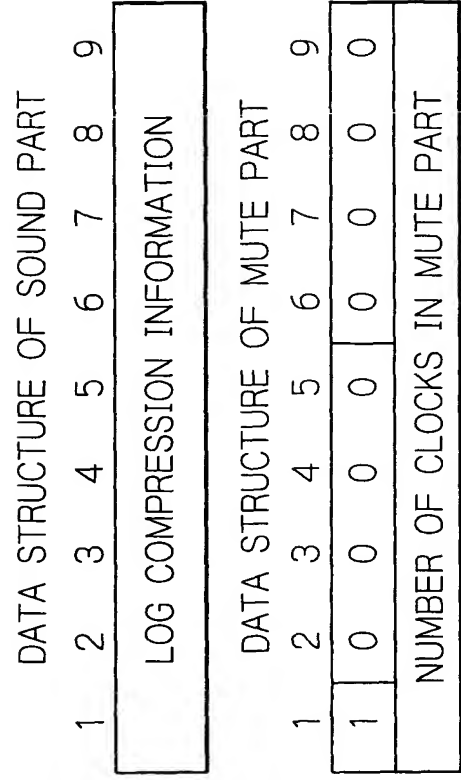


Fig. 27

